

Abstract

Optical recording medium based on a tellurium and zinc alloy

The optical recording medium comprises an active layer made of inorganic material, presenting a front face for receiving an optical radiation during writing operations, and a rear face. The inorganic material is a tellurium and zinc alloy comprising an atomic percentage of between 60% and 70% of zinc and between 30% and 40% of tellurium. The alloy comprises preferably 65% of zinc and 35% of tellurium. The medium may comprise a semi-reflecting layer arranged on the front face of the active layer and/or an additional metal layer arranged on the rear face and/or a protective layer of polymer material on the rear face. Thus, writing powers, a mark resolution and a storage density corresponding to DVD format specifications may be achieved.